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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/816,524	04/01/2004	Hubert Schalk	4100-339	9895
27799	7590	10/06/2005	EXAMINER	
COHEN, PONTANI, LIEBERMAN & PAVANE 551 FIFTH AVENUE SUITE 1210 NEW YORK, NY 10176			DESAI, HEMANT	
		ART UNIT		PAPER NUMBER
		3721		

DATE MAILED: 10/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/816,524	SCHALK, HUBERT
	Examiner	Art Unit
	Hemant M. Desai	3721

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 01 April 2004.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-9 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-9 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>8/8/05 & 8/29/05</u> .	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-2, 6-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Worthington et al. (3020042).

Worthington et al. disclose a folding device comprising a folding drum (3, fig. 1), a folding-blade shaft (10, 11, fig. 1) having two ends, the folding-blade shaft being rotatably mounted at each of the two ends in the folding drum (see fig. 1, col. 2, lines 25-27), the folding-blade shaft (10, 11) having at least two folding-blade carriers (12, fig. 1) for holding folding blades (see fig. 1), a pair of bearings arranged in the folding drum, the ends of the folding blade shaft being mounted respectively in the folding drum by the pair of bearings (since the folding blade shaft 10-11 are rotatably mounted on brackets, therefore mounting of two ends of the folding blade shaft by the pair of bearings is inherent part of mounting of the shaft), and at least one further bearing (see fig. 1) arranged in the folding drum between the pair of bearings, wherein the folding-blade shaft is further rotatably supported in the at least one further bearing (fig. 1) between the ends of the folding-blade shaft, which meets all the claimed limitations.

Regarding claim 2, the at least one further bearing (fig. 1) is arranged between adjacent ones of the at least two folding-blade carriers.

Regarding claim 6, the folding device comprises a drive pinion (spur gears 13, 17, fig. 1) arranged on the folding blade shaft (10, 11).

Regarding claim 7, the one further bearing being supported on the carrier (see fig. 1).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Worthington et al. (3020042) in view of Turner (4811688).

Worthington et al., as mentioned above, disclose that the folding blade shaft is supported by three bearings (fig. 1). Worthington et al. do not teach specifically that these bearings are self-aligning roller bearings. Turner teaches that it known to support shaft (roller 30, fig. 1) in self-aligning roller bearings. It would have been obvious to one having ordinary skill in the art at the time the invention was made to support the folding blade shaft of Worthington et al. in the self-aligning roller bearings, as taught by Turner, since Turner states at col. 2, lines 48-51 that such a modification would reduce friction to a minimum.

5. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Worthington et al. and Turner as applied to claim 3 above, and further in view of Ryser (6527029).

The folding device of Worthington et al. as modified by Turner, meets all the limitations of claim 4, except for central lubricating system to supply lubricating medium to the bearings. However Ryser teaches to provide the central lubrication system (32, fig. 5) to lubricate the bearings (31, fig. 5) of the driving shaft (see col. 3, lines 46- 60). Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to having provided the central lubrication system as taught by Ryser in the modified folding device of Worthington et al. to lubricate the bearings of folding blade shaft.

6. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Worthington et al. in view of Ryser (6527029).

The folding device of Worthington et al., as mentioned above, disclose all the claimed limitations, except for central lubricating system to supply lubricating medium to the bearings. However Ryser teaches to provide the central lubrication system (32, fig. 5) to lubricate the bearings (31, fig. 5) of the driving shaft (see col. 3, lines 46- 60). Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to having provided the central lubrication system as taught by Ryser in the folding device of Worthington et al. to lubricate the bearings of folding blade shaft.

7. Claims 8 and 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Worthington et al.

Regarding claim 9, Worthington et al., as mentioned above, disclose that the two folding blades (12) spaced apart from one other (see fig. 1). Worthington et al. do not

disclose expressly that the folding blades are spaced apart from one another by a distance smaller than 10 millimeters.

At the time the invention was made, it would have been an obvious matter of design choice to a person of ordinary skill in the art to space the folding blades apart by 10 millimeters because Applicant has not disclosed that by providing 10 millimeters of space between two folding blades provides an advantage, is used for a particular purpose, or solves a stated problem. One of ordinary skill in the art, furthermore, would have expected Applicant's invention to perform equally well with either the folding blade spaced apart as taught by Worthington et al. or the claimed folding blades spaced apart 10 millimeters because both folding blades with spacing of 10 millimeters or the spacing taught by Worthington et al. perform the same function of creating fold in the product.

Therefore, It would have been an obvious matter of design choice to modify Worthington et al. to provide a 10 millimeters spacing in order to creating fold in the product.

Regarding claim 8, Worthington et al., as mentioned above, disclose the one further bearing being supported on the carrier and the carrier is connected to the drum (see fig. 1). Worthington et al. do not disclose expressly that the carrier is connected to the drum by threaded connection. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide threaded connection since it was known in the art that provide threaded connection to connect two parts.

Response to Arguments

8. Applicant's arguments with respect to claims 1-6 and 9 have been considered but are moot in view of the new ground(s) of rejection.
9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hemant M. Desai whose telephone number is (571) 272-4458. The examiner can normally be reached on 7:00 AM-5:30 PM, Mon-Thurs..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rinaldi I. Rada can be reached on (571) 272-4467. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hemant M. Desai
HMD